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COURSE : MEASUREMENT AND INSTRUMENTATION

1. Sensors :

This are device that detects and responds to some type of input from the physical environment. The specific input could be light, heat, motion, moisture, pressure, or any one of a great number of other environmental phenomena.

example of these sensors are :

- Infr-red sensor
- Light dependant resistor
- temperature sensor e.t.c

Actuators :

It is a component of a machine that is responsible for moving and controlling a mechanism or system.

examples are as follows.

- comb drive
- Electric motor
- Hydraulic cylinder e.t.c

2.

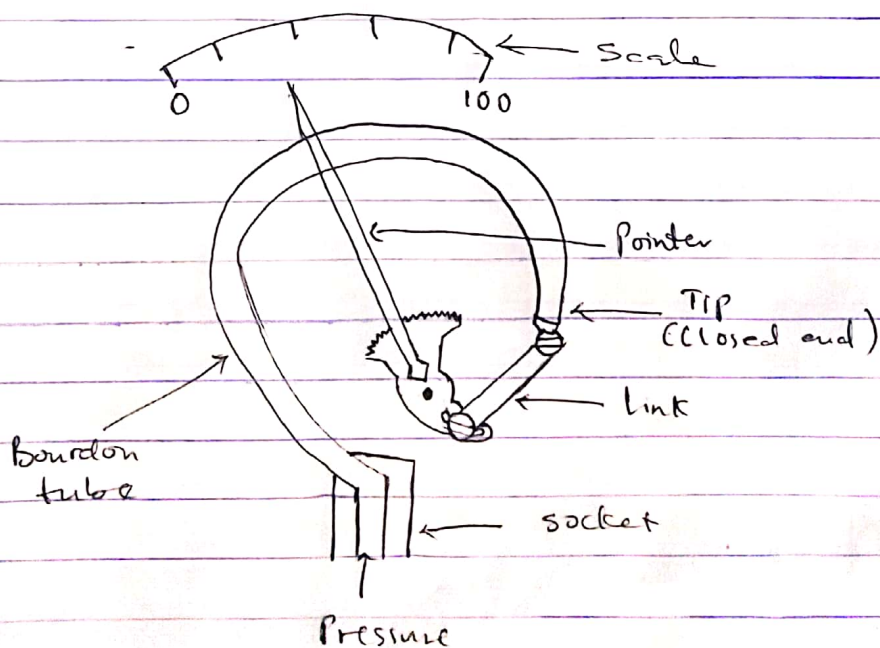


Diagram of a pressure sensors and transmitters.

3- Thermometer (Clinical) :

is a device that measures temperature or a temperature gradient. It can measure the temperature of a solid such as food, a liquid such as water or gas such as air. The three most common units of measurement for temperature are in Celsius, Fahrenheit and Kelvin.

- Stethoscope :

is an acoustic medical device for auscultation, or listening to internal sounds of an animal or human body.

It typically has a small disc-shaped resonator that is placed against the skin, and one or two tubes connected to two earpieces.